Application No. 10/636,088 Amendment dated July 13, 2007 Reply to Final Office Action of November 2, 2006

IN THE CLAIMS

1-4. (canceled)

5. (currently amended) A compound of formula (I)

$$\begin{array}{c|c}
R^1 & R^3 \\
\hline
N & N \\
N & R^4 \\
\hline
R^2 & (I)
\end{array}$$

The compound of general formula (I) according to claim 4, wherein:

R¹ is a [2-(cyclopropylcarbonylamino)phenyl]carbonylmethyl or [2-(pyridylcarbonylamino)phenyl]carbonylmethyl group;

R² is a methyl group;

R³ is a 2-buten-1-yl, 3-methyl-2-buten-1-yl, or a 2-butyn-1-yl group; and

R⁴ is a (3-aminopiperidin-1-yl) group,

or a prodrug or salt thereof.

6. (currently amended) A compound selected from:

- (1)1-[2-(2-formylaminophenyl)-2-oxoethyl]-3-methyl-7-(3-methyl-2-buten-1-yl)-8-(3-aminopiperidin-1-yl)xanthine;
- (1)(2) 1-(2-{2-[(cyclopropylcarbonyl)amino]phenyl}-2-oxoethyl)-3-methyl-7-(3-methyl-2-buten-1-yl)-8-(3-aminopiperidin-1-yl)xanthine;
- (3) 1-[2-(2-formylaminophenyl)-2-oxoethyl]-3-methyl-7-(2-butyn-1-yl)-8-(3-aminopiperidin-1-yl)xanthine;
- (2)(4) 1-(2-{2-[(cyclopropylcarbonyl)amino]phenyl}-2-oxoethyl)-3-methyl-7-((*E*)-2-buten-1-yl)-8-((*R*)-3-aminopiperidin-1-yl)xanthine;
- $(3)(5) 1-(2-\{2-[(cyclopropylcarbonyl)amino]phenyl\}-2-oxoethyl)-3-methyl-7- \\ ((E)-2-buten-1-yl)-8-((S)-3-aminopiperidin-1-yl)xanthine;$
- (4)(6) 1-(2-{2-[(cyclopropylcarbonyl)amino]phenyl}-2-oxoethyl)-3-methyl-7-(2-butyn-1-yl)-8-((R)-3-aminopiperidin-1-yl)xanthine;
- (5)(7) 1-(2-{2-[(cyclopropylcarbonyl)amino]phenyl}-2-oxoethyl)-3-methyl-7-(2-butyn-1-yl)-8-((S)-3-aminopiperidin-1-yl)xanthine; and

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(6)(8) 1-[2-(2-{[(pyridin-2-yl)carbonyl]amino}phenyl)-2-oxoethyl]-3-methyl-7-((*E*)-2-buten-1-yl)-8-(3-aminopiperidin-1-yl)xanthine,

or a prodrug or salt thereof.

7-10. (canceled)

- 11. (original) The compound of formula (I) according to claim 5, wherein the compound is a physiologically acceptable salt.
- 12. (currently amended) The compound of formula (I) according to claim 6, wherein the compound is a physiologically acceptable salt.
- 13. (currently amended) A pharmaceutical composition comprising a compound of formula (I) according to <u>claim 5</u> one of claims 1 to 12 and an inert carrier or diluent.
- 14. (currently amended) The pharmaceutical composition according to claim 13, wherein the compound of formula (I) is incorporated with the inert carrier or diluent by a non-chemical method.
- 15. (currently amended) A method <u>of treating type I and type II diabetes</u>

 <u>mellitus, obesity, or calcitonin-induced osteoporosis</u> comprising administering to the

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a patient in need thereof a pharmaceutically effective amount of a compound of

formula (I) according to claim 5 or 6 one of claims 1 to 12 for the prevention or treatment

of a disease or a condition selected from the group consisting of: type 1 and type 2

diabetes mellitus, rheumatoid arthritis, obesity, allograft transplantation and calcitonin-

induced osteoporosis.

16. (new) A method of treating type I or type II diabetes mellitus, or obesity,

comprising administering to a patient in need thereof a pharmaceutically effective

amount of a compound according to claim 5 or 6.

17. (new) A method of treating or preventing type II diabetes mellitus or obesity,

comprising administering to a patient in need thereof a pharmaceutically effective

amount of a compound according to claim 5 or 6.

18. (new) A pharmaceutical composition comprising a compound according to claim

6 and an inert carrier or diluent.

19. (new) The pharmaceutical composition according to claim 18, wherein the

compound is incorporated with the inert carrier or diluent by a non-chemical method.

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